



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Lei Shao

Title: MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT  
SPACE-FREQUENCY BLOCK CODES

Docket No.: 884.B52US1

Serial No.: 10/814,113

Filed: March 30, 2004

Due Date: September 14, 2004

Examiner: Unknown

Group Art Unit: 2631

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting herewith the attached:

- A return postcard.
- A check in the amount of \$130.00 to cover the large entity surcharge.
- A check in the amount of \$1510.00 to cover the Basic Filing Fee and Additional Claims Fee.
- A check in the amount of \$110.00 to cover the Extension of Time Fee.
- Petition for Extension of Time (1 pg.).
- Communication Re: Missing Parts (1 pg.).
- A signed Combined Declaration and Power of Attorney (3 pgs.).
- Notice to File Missing Parts (2 pgs.).
- Communication Re: Corrected Application Papers (1 pg.).
- Formal Drawings (6 pgs).

If not provided for in a separate paper filed herewith, please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional required fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

By: Ann M. McCrackin

Customer Number: 21186

Name: Ann M. McCrackin

Reg. No. 42,858

AMM1:CMG:clh

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Attn: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 14 day of September, 2004

Chris Hammond  
Name

Chris Hammond  
Signature

S/N 10/814,113



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Lei Shao • Examiner: Unknown  
Serial No.: 10/814,113 • Group Art Unit: 2631  
Filed: March 30, 2004 • Docket: 884.B52US1  
Customer No.: 21186 • Confirmation No.: 5163  
Title: MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT  
SPACE-FREQUENCY BLOCK CODES

**COMMUNICATION RE: MISSING PARTS**

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In response to the "Notice to File Missing Parts" (see enclosed copy), we submit the Combined Declaration and Power of Attorney, a check in the amount of \$130.00 to cover the Large entity surcharge, and a check in the amount of \$1510.00 to cover the large entity basic filing fee and additional claims fee.

Applicant assumes the application is now in proper order and in condition for examination. Please direct any inquiries to the undersigned attorney at (612) 349-9592.

If necessary, please charge any additional fees or credit overpayment to Deposit Account 19-0743.

Respectfully submitted,

Lei Shao

By his Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 349-9592

Date Sept. 13, 2004

By Ann M. McCrackin

Ann M. McCrackin  
Reg. No. 42,858  
AMM1:CMG:clh

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Chris Hammond  
Name

Chris Hammond  
Signature



S/N 10/814,113

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Lei Shao Examiner: Unknown  
Serial No.: 10/814,113 Group Art Unit: 2631  
Filed: March 30, 2004 Docket: 884.B52US1  
Title: MULTIPLE ANTENNA SYSTEMS AND METHODS USING HIGH-THROUGHPUT  
SPACE-FREQUENCY BLOCK CODES

## **COMMUNICATION RE: CORRECTED APPLICATION PAPERS**

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In response to the "Notice to File Missing Parts" which indicated "Corrected Papers" additionally required, enclosed are formal drawings for the above-mentioned application.

Applicant assumes the application is now in proper order and in condition for examination. Please direct any inquiries to the undersigned attorney at (612) 349-9592.

If necessary, please charge any additional fees or credit overpayment to Deposit Account 19-0743.

Respectfully submitted,

Lei Shao

By his Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 349-9592

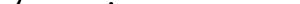
Date Sept. 13, 2004

By P. M. M. t

Ann M. McCrackin

Reg. No. 42.858

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Class 1A (2)

Chris Hammon

Name \_\_\_\_\_

Signature

Mail Stop Missing Parts, Commissioner for Patents  
*Chris Hammond*



## UNITED STATES PATENT AND TRADEMARK OFFICE

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Page 1 of 2  
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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/814,113	03/30/2004	Lei Shao	884.B52US1

Schwegman, Lundberg, Woessner & Kluth, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402

## CONFIRMATION NO. 5163

## FORMALITIES LETTER



\*OC000000012943042\*

Date Mailed: 06/14/2004

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

09/20/2004 MMEKDNEN 00000097 10814113

01 FC:1001 770.00 OP  
02 FC:1051 130.00 OP  
03 FC:1201 344.00 OP  
04 FC:1202 396.00 OP

## FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 770 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*
- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121 are required. The drawings submitted are not acceptable because:
  - The drawings submitted to the Office are not electronically reproducible. Drawing sheets must be submitted on paper, which is flexible, strong, white, smooth, non-shiny, and durable (see 37 CFR 1.84(e)). See Figure(s) 3.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of **\$740** as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

**PORTFOLIO I.P.**  
JUN 17 2004

RECEIVED

**SUMMARY OF FEES DUE:**

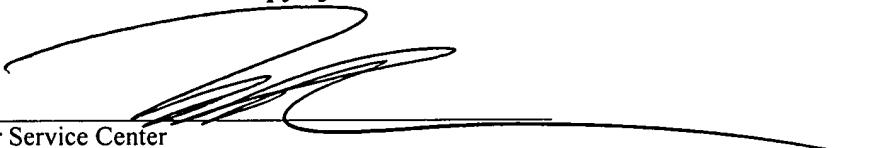
Total additional fee(s) required for this application is **\$1640** for a Large Entity

- **\$770** Statutory basic filing fee.
- **\$130** Late oath or declaration Surcharge.
- Total additional claim fee(s) for this application is **\$740**
  - **\$344** for **4** independent claims over **3**.
  - **\$396** for **22** total claims over **20**.

Replies should be mailed to: Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

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*A copy of this notice **MUST** be returned with the reply.*

  
Customer Service Center  
Initial Patent Examination Division (703) 308-1202  
PART 2 - COPY TO BE RETURNED WITH RESPONSE